Algebra 1-6: Square Roots & Radicals Day II

Warm-Up

V130 v	[12]	=	130
V 130 \	1 <i>150</i>		

1. It took 130 square yards of carpet to cover a square floor. Give the length of the room...

a) As an exact answer. 130



b) As an approximated answer to the nearest hundredth.

11.40

$$\sqrt{130} = 11.4017$$

2. Evaluate $\sqrt{(7^2 + 5^2)}$ $\sqrt{74} \approx 8.60$

$$\sqrt{7^2+5^2} = \sqrt{49+25} = \sqrt{74}$$

3. Estimate √5 without a calculator.



- 4. Multiply without using a calculator.
 - a) √15·√15 <u>/5</u>
 - b) 4/11·5/11 <u>220</u>·11
 - c) \(\sqrt{25.\sqrt{4}} \)
 \(\sqrt{5.\quad 2} = \left(\text{0} \)
- 5. Solve x² \$52.
- Give exact solution(s).



X=±152

2. Give the solution(s) rounded to the nearest hundredth. ____

7.2